PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATE NTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Articlé 36 and Rule 70)

Applicant's or agent's file reference 504320 NJC	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No. PCT/NZ2004/000165	International filing date (day/month/year) 27 July 2004	Priority date (day/month/year) 30 July 2003		
International Patent Classification (IPC) or	national classification and IPC			
Int. Cl. 7 A61M 16/00				
Applicant FISHER & PAYKEL HEALTHCARE LIMITED et al				
This report is the international preliminal Authority under Article 35 and transmit	ary examination report, established by this ted to the applicant according to Article 36	International Preliminary Examining		
2. This REPORT consists of a total of 7				
3. This report is also accompanied by ANI	NEXES, comprising:			
a. X (sent to the applicant and to the	e International Bureau) a total of 2 sheet	s, as follows:		
X sheets of the description, of sheets containing rectificate Administrative Instruction	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the			
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications relating	g to the following items:			
X Box No. I Basis of the report	rt .			
Box No. II Priority	Box No. II Priority			
Box No. III Non-establishme	nt of opinion with regard to novelty, invent	ive step and industrial applicability		
X Box No. IV Lack of unity of invention				
X Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VII Certain defects in	the international application			
X Box No. VIII Certain observations on the international application				
Date of submission of the demand Date of completion of the report				
25 May 2005		4 November 2005		
Name and mailing address of the IPEA/AU	Authorized Officer			
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(0-) 0000 0727	Telephone No. (02) 6283 2510		

International application No.

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Bo	No. I Basis of the report
1.	With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:
: 	international search (under Rules 12.3 and 23.1 (b))
	publication of the international application (under Rule 12.4)
	international preliminary examination (under Rules 55.2 and/or 55.3)
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
	the international application as originally filed/furnished
-	X the description:
	pages $1-12$ as originally filed/furnished
	pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of
	pages* received by this Authority on with the letter of X the claims:
	pages as originally filed/furnished
	pages* as amended (together with any statement) under Article 19
	pages* 13-14 received by this Authority on 25 May 2005 with the letter of 25 May 2005
	pages* received by this Authority on with the letter of X the drawings:
	pages $1-10$ as originally filed/furnished
	pages* received by this Authority on with the letter of
	pages* received by this Authority on with the letter of
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to the sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to the sequence listing (specify):
*	If item 4 applies, some or all of those sheets may be marked "superseded."

International application No.

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Box No. IV		V	Lack of unity of invention
1.		In resp	onse to the invitation to restrict or pay additional fees the applicant has:
			restricted the claims.
			paid additional fees.
			paid additional fees under protest.
			neither restricted nor paid additional fees.
2.	X	This A	authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, invite the applicant to restrict or pay additional fees.
3.	This A	Author	ity considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
		compl	ied with.
	X	not co	mplied with for the following reasons:
		1.	Claims 1-3 are directed to a forehead rest for a respiratory mask including a deformable resilient member comprising a deformable resilient member having a top surface and a base connected by two side walls, said side walls being substantially thinner in width than said top surface, said walls in use are compressible. It is considered that said side walls being substantially thinner in width than said top surface, said side walls in use are compressible comprises a first "special technical feature".
		2.	Claim 4 is directed to a forehead rest for a respiratory mask including a deformable resilient member comprising a hollow conical shape where in use and under compression the top part of said hollow cone deforms or the side walls of said cone deform. It is considered that the hollow conical shape of said deformable resilient member where in use and under compression the top part of said hollow cone deforms or the side walls of said cone deform comprises a second "special technical feature".
	•	3.	Claims 5-8 are directed to a forehead rest for a respiratory mask including a user-adjustable deformable resilient member configured to in use rest against the face of a patient. It is considered that the user-adjustable deformable resilient member comprises a third "special technical feature".
		It is n	toted that claim 9 is defined by the accompanying figures of the specification and, as such, unity of tion exists between claim 9 and each group of claims for which the figures relate to.
		relati	the abovementioned groups of claims do not share any of the technical features identified, a "technical onship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the national application does not relate to one invention or to a single inventive concept, a priori.
4.	. Consequently, this report has been established in respect of the following parts of the international application:		
	X all parts.		
 ,			he parts relating to claims Nos.

International application No.

NO

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Box No. V	Reasoned statement under Article 35(2) with rega	egard to novelty, inventive step or industrial applicability;
citation	s and explanations supporting such statement	observe to noverty, inventive step of industrial applicability;

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1.	Statement		
	Navalta AD	·	
ĺ	Novelty (N)	Claims 1-9	YES
1		Claims	
		Cidillis	NO
	Inventive step (IS)	Claims 1 – 9	YES
1	•	· ·	IES
		Claims	NO
	Industrial applicability (IA)		
	moustrial applicability (IA)	Claims 1-9	YES
	•	Claims	NO
		Calling	NED

2. Citations and explanations (Rule 70.7)

Novelty (N) Claims 1-9

Claims 1-3

Amended claims 1-3 meet the criteria set forth in PCT Article 33(2) for novelty. The prior art published before the priority date does not disclose a forehead rest including a deformable resilient member, said deformable resilient member having a top surface and a base connected by two side walls, said side walls being substantially thinner in width than said top surface, said side walls in use are compressible.

Claim 4

Amended claim 4 meets the criteria set forth in PCT Article 33(2) for novelty. The prior art published before the priority date does not disclose a forehead rest including a deformable resilient member being of a hollow conical shape where in use and under compression the top part of said hollow cone deforms or the side walls of said cone deform.

Claims 5-8

Amended claims 5-8 meet the criteria set forth in PCT Article 33(2) for novelty. The prior art published before the priority date does not disclose a forehead rest including a user-adjustable deformable resilient member.

See however the indication contained in Box VI "Certain documents cited".

It is noted that since claim 9 is defined by the accompanying figures of the specification, claim 9 may be considered as part of each group of claims for which the figures relate to.

Inventive Step (IS) Claims 1-9

Claims 1-3

Amended claims 1-3 meet the criteria set out in PCT Article 33(3) with regard to the requirement of Inventive Step because the prior art does not obviously suggest to a person skilled in the art a forehead rest including a deformable resilient member, said deformable resilient member having a top surface and a base connected by two side walls, said side walls being substantially thinner in width than said top surface, said walls in use are compressible.

Claim 4

Amended claim 4 meets the criteria set out in PCT Article 33(3) with regard to the requirement of Inventive Step because the prior art does not obviously suggest to a person skilled in the art a forehead rest including a deformable resilient member being of a hollow conical shape where in use and under compression the top part of said hollow cone deforms or the side walls of said cone deform.

International application No.

			PCT/NZ2004/000165
Box No. VI Certain docu	iments cited	<i>,</i>	
1. Certain published documen	its (Rule 70.10)		
Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	
P, X WO 2004/022145	18 March 2004	5 September 2003	
		,	
		•	
		•	
his document explicitly disc 3-66.	closes all of the features of claim	ims 5 and 7. See in parti	cular page 20, lines 7-23 and Figs.
<i>5</i> 00.			•
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Non-with ti-1			
. Non-written disclosures (Ru	ile 70.9)		· ·
Kind of non-written disclo	***************************************	ritten disclosure nth/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
•	•	,	
	,		
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International application No.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 7 is not clear because a claim cannot be appended to itself, but appears it should be appended to claim 5 instead. Claims 6 and 8 are not clear because they are appended to claim 7, but appears they should be appended to claim 5 instead.

International application No.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V.

Claims 5-8

Amended claims 5-8 meet the criteria set out in PCT Article 33(3) with regard to the requirement of Inventive Step because the prior art does not obviously suggest to a person skilled in the art a forehead rest including a user-adjustable deformable resilient member.

See however the indication contained in Box VI "Certain documents cited".

It is noted that since claim 9 is defined by the accompanying figures of the specification, claim 9 may be considered as part of each group of claims for which the figures relate to.

Industrial Applicability (IA) Claims 1-9

The invention defined in the claims is considered to meet the requirements of Industrial Applicability under Article 33(4) of the PCT because it can be made by, or used in, industry.

P Category Documents

With regard to the document(s) listed in Box VI under "certain documents cited", these are documents published prior to the international filing date but later than the priority date claimed but which would otherwise be considered to be of particular relevance.

Under the PCT, novelty is considered only in respect of documents published before the priority date. The relevance of a document published after the priority date is dependent upon national law. Such documents are excluded from consideration in preliminary examination, under the PCT Guidelines but have been included here for information.

WE CLAIM:

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- A device for delivering a supply of gases to a user comprising:
 a patient interface, in use in fluid communication with said supply of gases,
- a forehead rest engaging said interface including a deformable resilient member configured to in use rest against the face of a patient,

said deformable resilient member when compressed in use creating a uniformly and gradually increasing force, while evenly distributing the pressure on the forehead of said patient that contacts said resilient member,

said deformable resilient member having a top surface and a base connected by two side walls, said side walls being substantially thinner in width than said top surface said side walls in use are compressible.

- 2. A device for delivering a supply of gases to a user according to claims 2 or 3 wherein said top surface includes additional support at its centre to limit it's collapse.
- 3. A device for delivering a supply of gases to a user according to claims 2 to 4 wherein said side walls are capable of folding under compression.
- A device for delivering a supply of gases to a user comprising:
 a patient interface, in use in fluid communication with said supply of gases,
- a forehead rest engaging said interface including a deformable resilient member configured to in use rest against the face of a patient, said deformable resilient member being of a hollow conical shape where in use and under compression the top part of said hollow cone deforms or the side walls of said cone deform.
- A device for delivering a supply of gases to a user comprising:
 a patient interface, in use in fluid communication with said supply of gases,
- a forehead rest engaging said interface including a user-adjustable deformable resilient member configured to in use rest against the face of a patient.
- 6. A device for delivering a supply of gases to a user according to claim 7 wherein said adjustable deformable resilient member is at least one adjustable strap attached and adjustable on said forehead rest.
- 7. A device for delivering a supply of gases to a user according to claim 7 wherein said adjustable deformable resilient member is a member rotatably mounted on said forehead rest.
- 8. A device for delivering a supply of gases to a user according to claim 7 wherein said adjustable deformable resilient member is an inflatable member that is inflated with liquid or gas.

9. A device for delivering a supply of gases to a user as herein described with reference to the accompanying figures.